

Nurse Empowered Integration of Technology to Improve Clinical Outcomes

NCHICA 2009
Asheville, NC



Presenters

Patricia Wilkerson, RNBC

Reba Beavers, BSN, MBA, MHA

Sheba Smith, BSN

Debbie Zanes, BSN, PMP

Objectives

- Identify four areas in which nursing was successful in integrating technology to improve clinical outcomes.
 - Vaccines
 - Isolation
 - IVs
 - Order notification

Durham Regional Hospital



- Located in Durham , North Carolina
- 386 bed community hospital that is part of the Duke University Health System
- Magnet Status 2008
- NCNA Hallmark of a Healthy Workplace – Davis Amb Surgery and Endoscopy



Durham Regional Hospital

- ED Visits 2008: 57,394
- Admissions 2008: 15,562
- Surgical Cases 2008: 17,588
- Outpatient Visits 2008: 124,633
- Babies Delivered 2008: 2,237
- Physicians: 629
Residents/Teaching Services




Foundation Systems

- Siemens
 - INVISION: CPOE, Nursing Documentation, Pharmacy, MAC (Barcoded Bedside Medication Administration)
 - Radiology
 - Patient Accounting/Patient Management
- Cerner Lab
- Wellsoft- ED
- OB TraceVue- Women's Services
- GE Centricity - OR



NIWG/CIWG

	Nursing Informatics Work Group	
Chair: Pat Wilkerson, RNBC Meeting Schedule: 1st Friday 1000-1130 <u>Charter</u>	Purpose: Efficient integration of technology and clinical practice	<u>DUHS Nursing Informatics Career Ladder</u> <i><u>Berit Jasion, RN, MA</u></i> <i><u>Associate CIO, DHTS/DUHS</u></i>
Minutes: 10-24-2007 Summary 12-18-2007 Summary 01-2008 Summary 04-2008 Summary 06-2008 Summary 2007-2008 Summary 10-2008 Summary 12-05-2008 Summary 01-02-2009 Summary 02-25-2009 Summary	Hot Topics "Think Pink" New Isolation Header Color Critical Care Online NetAccess Documentation Live 02.03.09 NetAccess Nursing Documentation Enhancements-Phase 2 a/b Live 09.30.08/a and 10.07.08/b NURGEN Navigator Enhancement Live 09-23-2008 Pre-Anesthesia Interview Online Live 08-06-2008	



Vaccines: Issue

- Issue: Patients admitted to the hospital needed vaccine screening and/or administration.
(*HQI Indicator CHF and Pneumonia*)
 - Flu vaccine (Oct thru March)
 - Pneumococcal (Age 65 or >)
- Inconsistent administration per CDC recommendations
- Difficult to track and follow



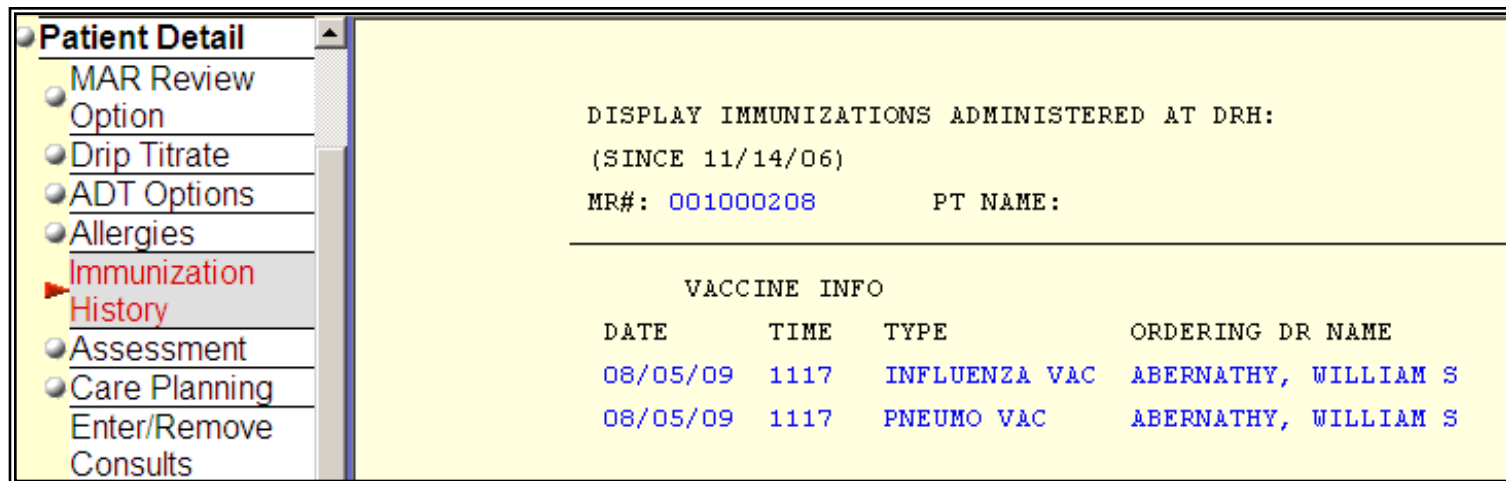
Vaccines: Solution

- Use technology to drive process
 - Pull forward previous vaccine history
 - Imbed screening into online assessments
 - Trigger CPOE order per protocol from Nursing documentation
 - Allow opt out but with forced daily reminders
 - Set time for administration (T+1 @ 1400)



Immunization History

- Created a tab on the Navigator for historical data if administered at DRH



The screenshot shows a software interface with a left-hand navigation pane and a main content area. The navigation pane lists various patient care options, with 'Immunization History' highlighted in red. The main content area displays the following information:

DISPLAY IMMUNIZATIONS ADMINISTERED AT DRH:
(SINCE 11/14/06)
MR#: 001000208 PT NAME:

VACCINE INFO

DATE	TIME	TYPE	ORDERING DR NAME
08/05/09	1117	INFLUENZA VAC	ABERNATHY, WILLIAM S
08/05/09	1117	PNEUMO VAC	ABERNATHY, WILLIAM S



Nursing Assessment Screening

Admission Assessment

Body Systems/Categories | **Chart Detail** | Review

Flu Vaccine

Has patient received the Influenza Vaccine this season? * Yes No Patient/Family Can't Remember Patient Unresponsive

Refer to Pt. Factors for Historical Data

Contraindications

Does the patient...

Have an allergy to eggs?	* <input type="radio"/> Yes	<input checked="" type="radio"/> No
Have a previous severe reaction to the vaccine?	* <input type="radio"/> Yes	<input checked="" type="radio"/> No
Have a history of Guillain-Barre Syndrome?	* <input type="radio"/> Yes	<input checked="" type="radio"/> No
Have a history of bone marrow transplant within the last 12 months?	* <input type="radio"/> Yes	<input checked="" type="radio"/> No
Refuse the vaccine?	* <input type="radio"/> Yes	<input checked="" type="radio"/> No
Admission for surgical procedure?	* <input type="radio"/> Yes	<input checked="" type="radio"/> No

Comments:

Flu vaccine will be ordered upon completion of assessment



CPOE

Current Orders	Order Sets	Nutrition/Pt Care	DX/TX	Med Orders	Search
NurCol-Revise	PHARMACY DEPT				
Regen Doc	91	REVIEWED	INFLUENZA VACC (INPT >=3 YR) 0.5ML IM ONCE	03/24/09	1400
	PER PROTOCOL (VIS 07/24/2008)				

- The CPOE order is automatically processed to a [Reviewed] status
- Protocol had to be approved through the DRH Medical Executive Board to allow for automation of the pathway



MAC

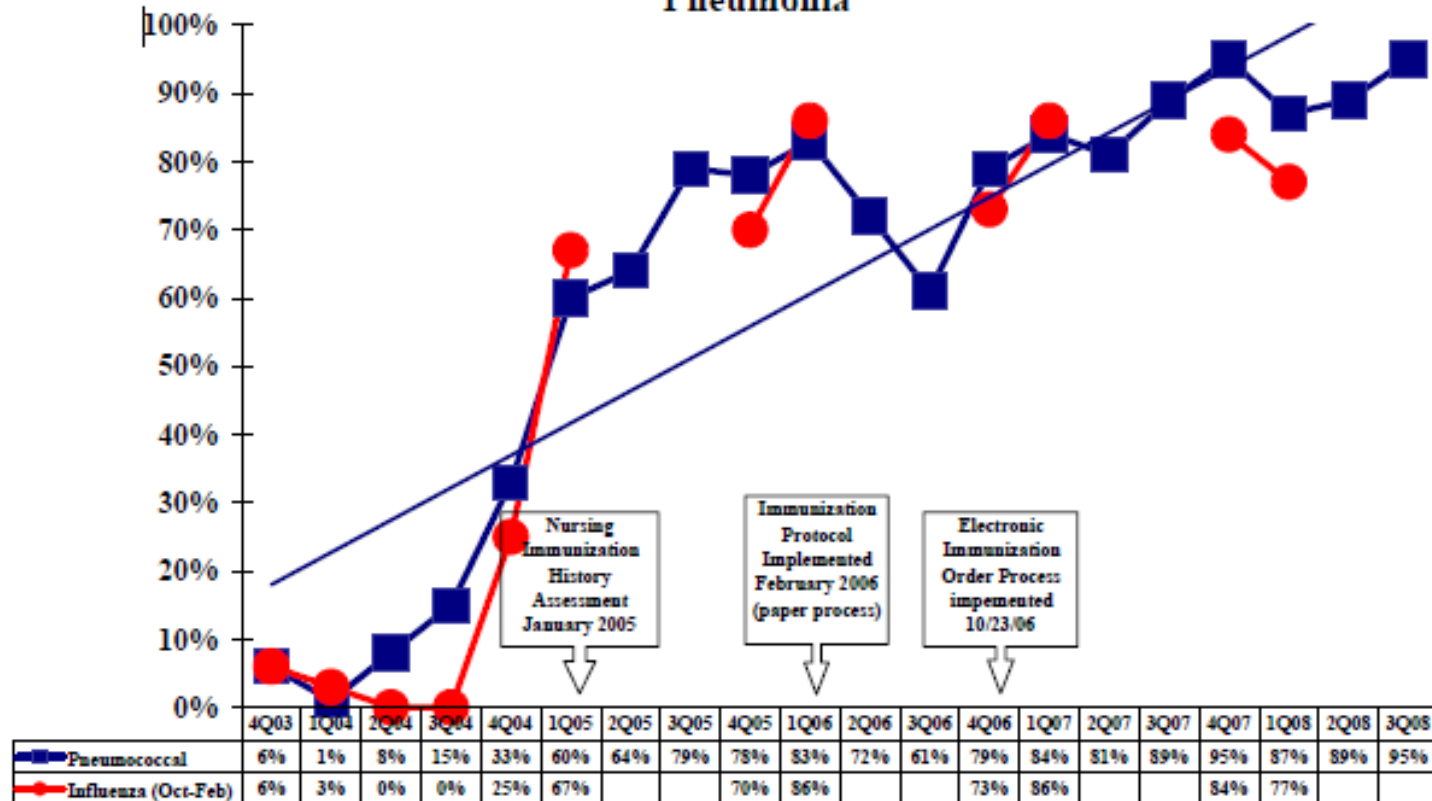
Medication Administration Record									
Pharmacy Directions									
PER PROTOCOL (VIS 07/24/2008)									
INFLUENZA VACC (INPT >=3 YR) FLUZONE (OR EQUIV) 0.5 ML IM ONCE T	Time	Status	Admin Dose	Reason	Comments	Injection Site	Effectiveness	Admin By	Start/Stop Date
Mar 24, 2009									Mar 24, 2009 14:00 Mar 24, 2009 14:00
Mar 23, 2009									

Siemens Pharmacy rolls into MAC for the Nurse to Verify and administer the vaccine



Vaccines: Outcomes

Immunizations Screening and Administration for Patients with Pneumonia



Isolation: Issue

- Poor communication: Isolation type and reason
- Failure to remove Isolation in a timely manner
- Frequent phone calls to Infection Control Nurses from providers
- Identified opportunity for improvement by CMS



Isolation: Solution

- Incorporate Isolation into documentation
 - Shift assessment with required reason
- Include in CPOE
 - Require reason for all isolation order
- Pull all data to one location (Patient factors)
- Visible Isolation indicator for all disciplines
 - Change header color (“Think Pink” campaign)
- Update Patient/Family education
- Real-time updates to FNS (Tray line)
- IC Nurse Active Surveillance (Daily Report for rounds)



Assessments

Patient Condition

Patient Condition:

Pt. Condition: * Good Fair Serious Critical

Code Status: * Yes DNR DNR Order Date: 3/3/2009

Isolation Indicator: * Last Isolation Documented: Standard

Isolation Reason: *

Isolation Education:

Educated Patient / Visitor

Deferred

Patient Factors Update:

- Imbedded into Admission assess
- Recalled into each Shift assess
- Updates Patient Factors



CPOE

TypeModifiers:
(Select only one)

AIRBORNE
 CONTACT
 DROPLET
 AIRBORNE AND CONTACT
 DROPLET AND CONTACT
 STANDARD

Reason:

SUSPECTED C-DIFF
CONFIRMED C-DIFF
MRSA
VRE

- Ordering screen has required fields for reason
- Drop down list from CDC with most common, but allows Free Text



Patient Factors

CRITICAL-CARE ,MILLIE-MAY		Pt#: 6682446		Allergies:	
MR#: 001000822	Pt#: 6682446	Age: 77	Y	Sex: F	Code: Y
DOB: 11/11/1931	Age: 77	Y	Sex: F	Code: Y	
Location: 51 / 5130-1					
Augmentin					
Strawberry					
Revise Patient Factors * Required					
Condition:	* <input type="text" value="SERIOUS"/>				
Fall Risk?	<input type="radio"/> Yes <input type="radio"/> No				
Restrained?	<input type="radio"/> Yes <input checked="" type="radio"/> No				
Diabetic?	* <input type="radio"/> Yes <input checked="" type="radio"/> No				
Confused?	<input type="radio"/> Yes <input type="radio"/> No				
Aspiration Precautions?	<input type="radio"/> Yes <input checked="" type="radio"/> No				
Seizure Precautions?	<input type="radio"/> Yes <input checked="" type="radio"/> No				
Height:	* <input type="text" value="5"/> ft <input type="text" value="5.00"/> in or <input type="text" value="165.00"/> cm				
Weight:	* <input type="text" value="151"/> lb <input type="text" value="3.75"/> oz or <input type="text" value="68.6"/> kg				
Body Surface:	1.774 SQM				
Isolation Type:	* <input type="text" value="Contact"/>				
Isolation Reason:	* <input type="text" value="SUSPECTED C-DIFF"/>				
Transportation					
Method:		<input type="text"/>			
With:		<input type="checkbox"/> Oxygen <input type="checkbox"/> IV			
Pregnant		<input type="radio"/> Yes <input type="radio"/> No			
LMP Date:		<input type="text"/>			
Lactating:		<input type="radio"/> Yes <input type="radio"/> No			
Influenza Vaccine:		<input type="radio"/> Yes <input checked="" type="radio"/> No			
Vaccine Date:		<input type="text"/> <input type="text"/> (mm)			
Pneumo Vaccine:		<input checked="" type="radio"/> Yes <input type="radio"/> No			
Vaccine Date:		<input type="text" value="Jul"/> * <input type="text" value="2007"/> (mm)			

Pink Header triggered by Isolation



Subsequent Admissions


TESTING NUMBERS MR#: 001000208 DOB: 1/1/1934	Pt#: 6683478 Age: 75 Y Sex: M Code:	Allergies: Seafood Shellfish
---	--	------------------------------------

Assessments * Required

This Patient Has a Current Isolation Indicator of

'C' - "CONTACT"

Reason: MRSA

***  ***

OK



Isolation: Outcomes

- Seamless Interdisciplinary communication
- Real time central location for information
- Visual Key for all clinical staff
- Active Surveillance IC Nurse Rounds



IV's : Issue

- Titration communication to Rx
- Tubing/Dressing Change
- Timely D/C of Central Lines



IV's: Solution

- Titrate Pathway q4 Hours
- Nursing Assessment revision



Titrating IV's: Solution

Current Orders	Order Sets	Nutrition/Pt Care	DX/TX	Med Orders	Search	Sign Order
NurCol-Revise	Ord #	Status	Description			Start Date/Time
Regen Doc	LIFE SUPPORT ORDERS					
D/C	8	VERIFIED	FULL CODE CONT			05/30/08 1721
Revise Rate			FAMILY/HCPOA			ORD CONTINUED VIA XFER RECON
Cancel Occr			02/25/2009			1519
Hold Diets			00079			JAMES STEPHENS
Resume Diets			WILSON, MD			
Undo	PHARMACY DEPT					
Order Detail	132	REVIEWED	DILTIAZEM IV DRIP AS ORDERED			04/24/09 0930
			RATE: 5 MG/HR			TITRATE: SBP > 100 < 160
			TITRATE: HR > 50 < 100			
			DILTIAZEM 100 MG/NS			100 ML
			INITIAL RATE: 5 MG/HR			TACHYCARDIA



Titrating IV's: Solution/Outcomes

Nurse enters new rate.
Initial rate in BLUE on the left
and titration comments in the yellow box

DILTIAZEM IV DRIP AS ORDERED		PHM3883	Order #:132
INITIAL RATE: 5 MG/HR *Rate @ 10 MG/HR		Drip Additives/Solutions: DILTIAZEM 100 MG NS 100 ML RATE: 5 MG/HR MAY TITRATE UP TO 15 MG/HR	

Nurse can request a new bag from Pharmacy
while documenting titration

Current Titrate Directions:	TITRATE: SBP > 100 < 160 TITRATE: HR > 50 < 100	<input checked="" type="checkbox"/> Need a new bag in one hour <input type="checkbox"/> Need a new bag in two hours
-----------------------------	--	--



Titrating IV's: Solution/Outcomes

Clinician view of titration across time

DRIP TITRATE (Posted after 04/21/2009)				
	2009 23 Apr 19:47 	2009 23 Apr 11:35 	2009 23 Apr 09:17 	2009 23 Apr 06:50
<input type="checkbox"/> DILTIAZEM INF DRIP CURR RATE	2.5000	5.0000	10.0000	5.0000
<input type="checkbox"/> DILTIAZEM INFUSION	INITIAL RATE: 5 MG/HR CURRENT RATE: 2.5 MG/HR SBP > 100 < 160 HR > 50 < 100	INITIAL RATE: 5 MG/HR CURRENT RATE: 5 MG/HR SBP > 100 < 160 HR > 50 < 100	INITIAL RATE: 5 MG/HR CURRENT RATE: 10 MG/HR SBP > 100 < 160 HR > 50 < 100	INITIAL RATE: 5 MG/HR CURRENT RATE: 5 MG/HR SBP > 100 < 160 HR > 50 < 100



IV Documentation Pathway

	Document?	Site/Type	Last Assessed		Tubing Changed	
IV Site 1	<input type="checkbox"/>					
IV Site 2	<input type="checkbox"/>					
IV Site 3	<input type="checkbox"/>					
IV Site 4	<input type="checkbox"/>					
Central Line 1 / A-Lin	<input checked="" type="checkbox"/>	TLC	03 / 23 / 2009	03:00	03 / 20 / 2009	07:00
Central Line 2 / A-Lin	<input type="checkbox"/>					
Central Line 3 / A-Lin	<input checked="" type="checkbox"/>	A Line	03 / 23 / 2009	03:00	03 / 23 / 2009	06:58
Picc/Midline 1	<input checked="" type="checkbox"/>	Assess	03 / 23 / 2009	03:00	03 / 17 / 2009	01:56



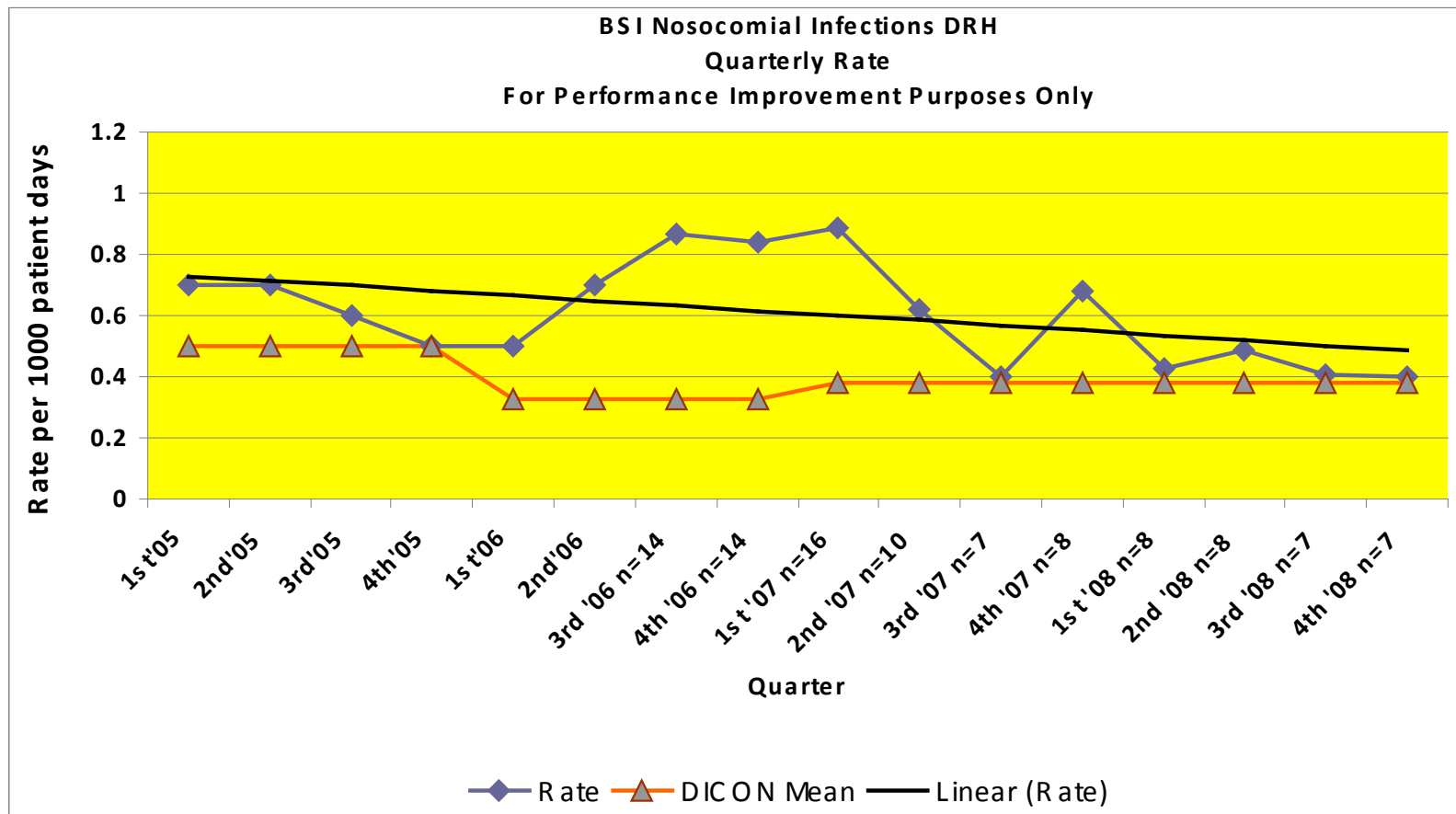
Site/Line Assessment

Central Lines		Previous Assessment 2/19/2009 07:00
Central Line 1	TLC	Patient's central line has not been accessed for medications or IV fluids for more than 32 hours. Please contact the MD for possible discontinuation of the catheter.
Date Inserted:	* 2/16/2009 Time: * 2230	
Who Inserted:	* Doctor Donkey	
Attempts	<input type="checkbox"/>	
Pt Response:		
Appearance:	* <input type="checkbox"/> WNL <input type="checkbox"/> Warm <input type="checkbox"/> Red <input type="checkbox"/> Edema <input type="checkbox"/> Not Present	
Action:		
Dressing:	<input type="radio"/> Intact <input type="radio"/> Changed Dressing Changed: 2/19/09	
IV:	<input type="radio"/> Continuous <input type="radio"/> IVAD <input type="checkbox"/> Pump	
New/Change Tubing:	2/19/2009 Time: 0700 <input type="checkbox"/> Zeroed	
Disc Date:	Time:	
Nurse Collect Blood Samples:	* <input checked="" type="radio"/> Yes <input type="radio"/> No	
Has this line been accessed for fluids or medications during the past 8	<input type="radio"/> Yes <input type="radio"/> No	



IV CABI: Outcomes

CABI data
30% decrease from 2007-2008
post documentation revision



Order Notification: Issue

- Implementation of CPOE (Computerized Physician Order Entry)
 - Order Notification became an concern
- Nursing Concerns
 - No “flag” to pull up on the chart
 - No reminder for new orders
 - Fear of not checking often enough
 - Dual process



Order Notification: Solution

Designed and implemented

– Airport Monitor

– Automated Nurse Acknowledgment

Display Last Updated: 05/03/07 1424

52CP-1	YES	5209-1	
52CP-5	STAT	5210-1	INAC
52CP-6		5211-2	
5200-1	YES	5212-1	
5201-1		5215-1	INAC
5202-1	DSCH	5217-2	
5203-1		5218-2	DSCH
5204-1		5221-1	
5205-1	YES	5228-1	
5206-1		5229-2	
5207-1			
5208-1	STAT		



DRHst Patient: Cpoe, Dawn User: NSAGEN

Order: 5209-1, 5210-1, 5211-2, 5212-1, 5215-1, 5217-2, 5218-2, 5221-1, 5228-1, 5229-2

Order Status: YES, STAT, DSCH, INAC

Centum Acknowledgement of Orders on Display

Click on Confirm to acknowledge orders on display.

Click on Cancel to return to display.

Acknowledgement will update last charted date/time and create an in place holder order for the QA/Summary display.

Confirm Cancel



Order Notification: Solution

Airport Monitor

Display Last Updated: 05/03/07 1424			
52CP-1	YES	5209-1	
52CP-5	STAT	5210-1	INAC
52CP-6		5211-2	
5200-1	YES	5212-1	
5201-1		5215-1	INAC
5202-1	DSCH	5217-2	
5203-1		5218-2	DSCH
5204-1		5221-1	
5205-1	YES	5228-1	
5206-1		5229-2	
5207-1			
5208-1	STAT		



Order Notification: Solution

Airport monitors strategically placed on each unit



Order Notification: Solution

Census Display with indicators



Census: 52

Rm/Bed	Patient Name	New Orders	Sex	Age	Med Rec No	Pt No	Svc	Atn Dr. Name	Admit Date	Days Stay	PUB	PT
52CP-1	Fausak_Edtest	DSCH	F	48	651000011	6908627	EME	Clark, Vivian Elizabeth	04/05/2007	00057	*N*	H
52CP-5	Fausak_Edtest	YES	M	44	652121212	6908628	EME	Clark, Vivian Elizabeth	04/05/2007	00057	*N*	H
52CP-6	Spring_First	YES	M	30	301032107	6908426	EME	Clark, Vivian Elizabeth	04/05/2007	00057		H
5200-1	Hendrix_Jimi	STAT	M	58	523598545	6908880	MED	Lineberger, Robert	05/03/2007	00029		H
5201-1	Test_Inp-52		M	43	488955423	6908625	CAR	Buchanan Jr, Robert A.	04/04/2007	00058		H
5202-1	McMouse_Mickeycpn	YES	M	29	001211978	6907990	MED	Preston, Edwin Thorton	02/20/2007	00101		H
5203-1	Cpoe-Testing_Sheba		F	48	022807001	6908111	CAR	Lineberger, Robert	03/14/2007	00079		H
5204-1	O'Donnell_Chris	YES	M	44	246894673	6907991	MED	Buchanan Jr, Robert A	02/20/2007	00101		H
5205-1	Hipster_Grandma	YES	F	87	698124741	6909198	MED	Lineberger, Robert	05/16/2007	00016		H
5206-1	Inactiveagain_Reba		F	53	001042507	6908814	MED	Barnes, Christopher	04/25/2007	00037	*N*	H
5207-1	For_Laverne	YES	M	32	501050307	6908886	MED	Cooperberg, Charles Ian	05/03/2007	00029		H
5209-1	Cbord_2_Six		F	9	200604046	6907993	MED	Abernathy, William S	02/20/2007	00101		H
5210-1	Wednesday_Amie	INAC	F	41	001042566	6908813	MED	Manzon, Anthony Peter	04/25/2007	00037	*N*	H
5211-1	Prdridx_Opinbed051707		F	41	051707103	6909303	MED	Doctor Not On File	05/17/2007	00015		T
5211-2	Cerner_Testing	YES	M	51	100565454	6907995	MED	Cooperberg, Charles Ian	02/20/2007	00101		H
5212-1	Inactive_Reba	YES	F	31	256589879	6908801	MED	Manzon, Anthony Peter	04/20/2007	00042		H
5213-1	Prdridx_Mayeighteen		M	42	051807102	6909437	MED	Doctor Not On File	05/18/2007	00014		T
5215-1	Inactiveagain2_Reba	INAC	F	43	002042507	6908815	MED	Manzon, Anthony Peter	04/26/2007	00036		H
5217-2	Testing_Orderflag		M	77	101010807	6907587	MED	Lineberger, Robert	01/08/2007	00144		H
5218-2	Lisaintended_Start	DSCH	M	51	555555556	6908624	MED	Bronec, Peter Robert	04/04/2007	00058		H
Rm/Bed	Patient Name	New Orders	Sex	Age	Med Rec No	Pt No	Svc	Atn Dr. Name	Admit Date	Days Stay	PUB	PT
5221-1	Duke_Grv3		M	41	200602231	6907599	MED	Buchanan Jr, Robert A	01/09/2007	00143		H
5224-1	Prdridx_Etoaia052507	DSCH	M	37	105000312	6909527	MED	Cooperberg, Charles Ian	05/25/2007	00007		H
5226-1	Prdridx_Etoaia052207	DSCH	M	37	105000293	6909483	MED	Lineberger, Robert	05/22/2007	00010		H
5228-1	Test_Tomorrow	STAT	M	35	456445646	6907637	GSU	Marsicano, Thomas Hobbs	01/15/2007	00137		H
5229-1	Cpoe_Outpt		M	36	222334444	6908890	MED	Solik, Steven Craig	05/04/2007	00028		F
5229-2	Cpoe_Dawn	YES	F	36	555121212	6908105	MED	Abernathy, William S	02/28/2007	00093		H



Order Notification: Solution

- Online nursing acknowledgement pathway included the following functions
 - Ability to Note Orders
 - Chart Checks (once per shift)
 - Daily Audits (once every 24 hours)
 - QA Summary (review compliance with electronic process)



Order Notification: Solution

Example: Electronic Noting of orders

DRH^{tst} Patient: **Cpoe ,Dawn** User: **NSAGEN**

MR#: 555121212 P#: 6908105 Allergies: FUROSEMIDE, BEE STINGS, DIRT,
 DOB: 1/1/1971 Age: 36 Y Sex: F AMPICILLIN, CONTRAST DYE
 Location: 52 / 5229-2
 Att: ABERNATHY WILLIAM S

Chart check Last Chart Check Performed: **050207 1126** Pending Page: **13**
 Pending Total: **13**

Note	367	VERIFIED	KIDNEY US ONCE	05/03/07	0926	05/03/07	09:26
			ABDOMINAL PAIN				
Note Page	366	VERIFIED	ABDOMEN-3V ERECT + CXR ONCE	05/03/07	0926	05/03/07	09:26
			ABDOMINAL PAIN				
Undo	365	VERIFIED	BRAIN WO CONTRAST MRI ONCE	05/03/07	0926	05/03/07	09:26
			BRAIN TRAUMA				
Order Detail	364	VERIFIED	CPK ISOENZYMES IN AM	05/04/07	0600	05/04/07	06:00
	363	VERIFIED	CBC HEMOGRAM W/ PLATELET IN AM	05/04/07	0600	05/04/07	06:00
	362	VERIFIED	P T EVALUATION-CONSULT CONT	05/03/07	0926		:
			EVAL AND TREAT FULL				
	361	VERIFIED	CHEST PT PRN	05/03/07	1200		:
	360	VERIFIED	OXYGEN THERAPY PER SHIFT Q8HR	05/03/07	0926		:
			> 90% POSS CO2 RETAINER				
			DO NOT WEAN PATIENT CONDITION WARRANTS				
			2				
	359	VERIFIED	OXYGEN DESAT MONITOR ONCE	05/03/07	0926	05/03/07	09:26
			OVERNIGHT STUDY				
	358	VERIFIED	LOOSE VISUAL CONTACT Q15MIN	05/03/07	0926		:
			FALLS RISK SEIZURE				
Chart check	357	VERIFIED	DAY ROOM WATCH CONT	05/03/07	0926		:
	356	VERIFIED	BEDREST CONT	05/03/07	0926		:
	355	VERIFIED	FULL CODE CONT	05/03/07	0926		:
			PRIOR DISCUSSION WITH THE PATIENT &/OR FAMILY				
	354	VERIFIED	VS Q4HR UNTIL D/C	05/03/07	0926		:
			PATIENT CONDITION WARRANTS Q4HR UNTIL D/C				
	353	VERIFIED	PATIENT CONDITION: GOOD CONT	05/03/07	0926		:
	351	STSCHNGE	(D/C ORD# 177) INSERT IVAD CONT	05/02/07	1125	05/02/07	11:25

Legend QA Summary Proceed Cancel

DRHCCO01.P 05/03/2007 09:29



Order Notification: Solution

Noted orders display in Black
MD knows orders have been noted

Current	Order Sets	Nutrition/Pt Care	DX/TX	Med Orders	Search	Sign Orders
NurCol-Revise	Ord #	Status	Description	Start Date/Time	Disc Date/Time	Stop Date/Tim
Regen Doc	***** No Orders Approaching Expiration *****					
D/C	LABORATORY					
DC / Renew (Revise)	3	VERIFIED	CBC HEMOGRAM W PLATELET STAT	05/31/07 1150	// :	05/31/07 11
Cancel Occr	2	VERIFIED	AMYLASE,SERUM STAT	05/31/07 1150	// :	05/31/07 11
Hold Diets	RADIOLOGY					
Resume Diets	4	VERIFIED	CXR-2 V- PA & LAT. STAT COUGH WITH FEVER	05/31/07 1150	// :	05/31/07 11
Undo	SPECIAL SERVICES					
Order Detail	1	VERIFIED	EKG-12 LEAD STAT	05/31/07 1150	// :	05/31/07 11

Legend Display orders without comments 24 Hr Display Enter Order Changes



Order Notification: Solution

Example: Chart Check

DRH^{tst} Patient: **Cpoe ,Dawn** User: **NSAGEN**

MR#: 555121212 Pt#: 6908105 Allergies: FUROSEMIDE, BEE STINGS, DIRT,
DOB: 1/1/1971 Age: 36 Y Sex: F AMPICILLIN, CONTRAST DYE
Location: 52 / 5229-2
Attn: ABERNATHY, WILLIAM S.

Chart Check Last Chart Check Performed: 050207 1126

Chart check

367 VERIFIED KIDNEY US ONCE 05/03/07 09:26 05/03/07 09:26
ABDOMINAL PAIN
Confirm Acknowledgement of Orders on Display 05/03/07 09:26
Click on Confirm to acknowledge orders on display.. 05/03/07 09:26
Click on Cancel to return to display. 05/04/07 06:00
Acknowledgement will update last charted date/time and 05/04/07 06:00
create a place holder order for the QASummary display. !! :
!! :
!! :
05/03/07 09:26 !! :
!! :
!! :
!! :
PRIOR DISCUSSION WITH THE PATIENT &/OR FAMILY
354 VERIFIED VS Q4HR UNTIL D/C 05/03/07 09:26 !! :
PATIENT CONDITION WARRANTS Q4HR UNTIL D/C
353 VERIFIED PATIENT CONDITION: GOOD CONT 05/03/07 09:26 !! :
351 STSCHNGE (D/C ORD# 177) INSERT IVAD CONT 05/02/07 11:25 05/02/07 11:25

Buttons: Note, Note Page, Undo, Order Detail, Chart check, Confirm, Cancel, Legend, QA Summary, Proceed, Cancel



Order Notification: Solution

Example: QA Summary

DRH^{tst} Patient: **Cpoe ,Dawn** User: **NSAGEN**

CPOE ,DAWN
MR#: 555121212 Pt#: 6908105
DOB: 1/1/1971 Age: 36 Y Sex: F
Location: 52 / 5229-2
Att: ABERNATHY, WILLIAM S.

Allergies:
FUROSEMIDE, BEE STINGS, DIRT,
AMPICILLIN, CONTRAST DYE

Number of Orders in Display: **368**

All Orders - QA Summary View

Ord #	Status	Description	Start Date/Time	Stop Date/Time
368	CHARTCHT	CHART CHECKED BY: TEST GEN NURSING A RN	05/03/07 09:31	05/03/07 09:31
367	VERIFIED	KIDNEY US ONCE	05/03/07 09:26	05/03/07 09:26
366	VERIFIED	ABDOMEN-3V ERECT + CXR ONCE	05/03/07 09:26	05/03/07 09:26
365	VERIFIED	BRAIN WO CONTRAST MRI ONCE	05/03/07 09:26	05/03/07 09:26
364	VERIFIED	CPK ISOENZYMES IN AM	05/04/07 06:00	05/04/07 06:00
363	VERIFIED	CBC HEMOGRAM W PLATELET IN AM	05/04/07 06:00	05/04/07 06:00
362	VERIFIED	P T EVALUATION-CONSULT CONT	05/03/07 09:26	!! :
361	VERIFIED	CHEST PT PRN	05/03/07 12:00	!! :
360	VERIFIED	OXYGEN THERAPY PER SHIFT Q8HR	05/03/07 09:26	!! :
359	VERIFIED	OXYGEN DESAT MONITOR ONCE	05/03/07 09:26	05/03/07 09:26
358	VERIFIED	LOOSE VISUAL CONTACT Q15MIN	05/03/07 09:26	!! :
357	VERIFIED	DAY ROOM WATCH CONT	05/03/07 09:26	!! :
356	VERIFIED	BEDREST CONT	05/03/07 09:26	!! :
355	VERIFIED	FULL CODE CONT	05/03/07 09:26	!! :
354	VERIFIED	VS Q4HR UNTIL D/C	05/03/07 09:26	!! :
353	VERIFIED	PATIENT CONDITION: GOOD CONT	05/03/07 09:26	!! :
352	CHARTCHT	CHART CHECKED BY: DAWN CANNON RN	05/02/07 11:26	05/02/07 11:26
351	STSCHNGE	(D/C ORD# 177) INSERT IVAD CONT	05/02/07 11:25	05/02/07 11:25
350	VERIFIED	CBC HEMOGRAM W PLATELET IN AM	05/03/07 06:00	05/03/07 06:00
349	VERIFIED	INSERT IVAD CONT	05/02/07 11:25	!! :
348	REVIEWED	ACETAMINOPHEN 650 MG PO Q6HPRN	05/02/07 11:30	06/01/07 05:30
347	STSCHNGE	(D/C ORD# 5) FALL PRECAUTIONS CONT	05/02/07 11:22	05/02/07 11:22
346	STSCHNGE	(D/C ORD# 6) NEURO CHECKS Q2HR UNTIL D/C	05/02/07 11:22	05/02/07 11:22
345	STSCHNGE	(D/C ORD# 8) I&O QSHIFT	05/02/07 11:22	05/02/07 11:22
344	STSCHNGE	(D/C ORD# 10) INSERT IVAD CONT	05/02/07 11:22	05/02/07 11:22

Print Order Detail Continue

DRH OVR GOGEDP01:P 05/03/2007 09:36



Order Notification: Outcomes

- Streamlined order notification
- Increased Communication
- Automated Chart Check and Daily Audit.





Questions

Session Name: Nursing Empowered Integration
of Technology to Improve Clinical Outcomes

